



Revision Number: 007.1

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**1. IDENTIFICATION**

<b>Product name:</b>	<b>LOCTITE SI 5031 LIGHT CURE ADHESIVE known as LOCTITE 5031/300ML</b>	<b>IDH number:</b>	693986
<b>Product type/ Recommended use:</b>	Silicone sealant	<b>Item number:</b>	40086
<b>Restriction of Use:</b>	None identified	<b>Region:</b>	United States
<b>Company address:</b>	Henkel Corporation One Henkel Way Rocky Hill, Connecticut 06067	<b>Contact information:</b>	Telephone: +1 (860) 571-5100 MEDICAL EMERGENCY Phone: Poison Control Center 1-877-671-4608 (toll free) or 1-303-592-1711 TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887 MEDICAL EMERGENCY Phone: Poison Control Center 1-877-671-4608 (toll free) or 1-303-592-1711 TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887 Internet: www.henkelna.com

**2. HAZARDS IDENTIFICATION**

EMERGENCY OVERVIEW	
<b>DANGER:</b>	H315 - CAUSES SKIN IRRITATION. H318 - CAUSES SERIOUS EYE DAMAGE.

HAZARD CLASS	HAZARD CATEGORY
SKIN IRRITATION	2
SERIOUS EYE DAMAGE	1



**Precautionary Statements**

<b>Prevention:</b>	P264 - Wash affected area thoroughly after handling. P280 - Wear protective gloves, eye protection, and face protection.
<b>Response:</b>	P302+P352 - IF ON SKIN: Wash with plenty of water. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332+P313 - If skin irritation occurs: Get medical attention. P362+P364 - Take off contaminated clothing and wash it before reuse.
<b>Storage:</b>	Not prescribed
<b>Disposal:</b>	Not prescribed

**Other hazards** Not available.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Weight %*
Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica	68909-20-6	1 - 5
3-[tris(acetoxy)silyl]propyl methacrylate	51772-85-1	1 - 5
Diacetoxydi-tert-butoxysilane	13170-23-5	1 - 5
2,2-Diethoxyacetophenone	6175-45-7	1 - 5
Acetic acid	64-19-7	0.1 - 1
Acetic anhydride	108-24-7	0.1 - 1

\* Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

### 4. FIRST AID MEASURES

#### First Aid Measures by likely routes of exposure

<b>Inhalation:</b>	Move to fresh air. If symptoms develop and persist, get medical attention.
<b>Skin contact:</b>	Wipe off paste with paper towel or cloth. Wash with soap and water. If symptoms develop and persist, get medical attention.
<b>Eye contact:</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms develop and persist, get medical attention.
<b>Ingestion:</b>	DO NOT induce vomiting unless directed to do so by medical personnel. If symptoms develop and persist, get medical attention.
<b>Most important symptoms and effects (acute and delayed):</b>	The most important known symptoms and effects, both acute and delayed, are described in Section 11: Toxicological Information.
<b>Indication of any immediate medical attention / special treatment needed:</b>	Not available.

### 5. FIRE FIGHTING MEASURES

<b>Extinguishing media:</b>	Foam, dry chemical or carbon dioxide. Do not use high volume water jet.
<b>Improper extinguishing agents:</b>	Not available.
<b>Special firefighting procedures:</b>	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. In case of fire, keep containers cool with water spray.
<b>Unusual fire or explosion hazards:</b>	None
<b>Hazardous combustion products:</b>	Oxides of carbon. Oxides of silicon. Formaldehyde Acetic acid. Thermal decomposition can lead to release of irritating gases and vapors.

### 6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

<b>Environmental precautions:</b>	Do not allow material to contaminate ground water system.
<b>Clean-up methods:</b>	Scrape up as much material as possible. Spilled material will solidify. Store in a partly filled, closed container until disposal. Maintain good ventilation for large spills.

## 7. HANDLING AND STORAGE

**Handling:** Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling.

**Storage:** Store in a dry area below 90° F.

**Shelf Life Statement: Not available.**

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica	3 mg/m3 TWA Respirable fraction. 10 mg/m3 TWA Inhalable dust.	6 mg/m3 TWA	None	None
Acetic anhydride	1 ppm TWA 3 ppm STEL	5 ppm (20 mg/m3) PEL	None	None

**Engineering controls:** Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

**Respiratory protection:** Use NIOSH approved respirator if there is potential to exceed exposure limit(s).

**Eye/face protection:** Safety goggles or safety glasses with side shields.

**Skin protection:** Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	Viscous, Liquid
<b>Color:</b>	Opaque
<b>Odor:</b>	Acetic acid
<b>Odor threshold:</b>	Not available.
<b>pH:</b>	Not applicable, Product is non-soluble (in water).
<b>Vapor pressure:</b>	< 10 mm hg (20 °C (68°F))
<b>Boiling point/range:</b>	> 180 °C (> 356°F)Decomposes > 140°C (284°F).
<b>Melting point/ range:</b>	Not applicable, Product is a liquid
<b>Density/Relative density:</b>	1.05
<b>Relative vapor density:</b>	> 1 20 °C
<b>Flash point:</b>	> 93.3 °C (> 199.94 °F) None
<b>Flammable/Explosive limits - lower:</b>	Not available.
<b>Flammable/Explosive limits - upper:</b>	Not available.
<b>Autoignition temperature:</b>	Not available.
<b>Flammability:</b>	The product is not flammable.
<b>Evaporation rate:</b>	Not available.
<b>Solubility:</b>	Reacts with water. Water
<b>Partition coefficient n-octanol/water (logarithmic value):</b>	Not available.
<b>VOC content:</b>	5.69 %; 59.7 g/l
<b>Dynamic viscosity:</b>	4,000 - 7,500 mPa.s
<b>Kinematic viscosity:</b>	5,500 mm2/s
<b>Particle characteristics:</b>	Not applicable, Product is a liquid
<b>Decomposition temperature:</b>	> 140 °C

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable under normal conditions of storage and use.
<b>Hazardous reactions:</b>	Will not occur.
<b>Hazardous decomposition products:</b>	Oxides of carbon. Oxides of silicon. Formaldehyde Acetic acid is liberated slowly upon contact with moisture. Thermal decomposition can lead to release of irritating gases and vapors.
<b>Incompatible materials:</b>	Alkalis. Acids. Water. Oxidizing agents. Alcohols. Amines.
<b>Reactivity:</b>	Not available.
<b>Conditions to avoid:</b>	Product is sensitive to light and moisture.

## 11. TOXICOLOGICAL INFORMATION

**Likely routes of exposure:** Skin, Inhalation, Eyes, Ingestion

### Potential Health Effects/Symptoms

**Inhalation:** May cause respiratory tract irritation. When heated to temperatures exceeding 300° F (150° C) in the presence of air, silicones may form formaldehyde vapors. Formaldehyde is a potential cancer hazard and a known skin and respiratory sensitizer. Vapors irritate the eyes, nose and throat. Safe handling conditions may be maintained by keeping formaldehyde vapor concentrations below the OSHA permissible limit.

**Skin contact:** Can cause moderate to severe skin irritation.

**Eye contact:** Causes serious eye damage.

**Ingestion:** May cause gastrointestinal tract irritation if swallowed. Not expected under normal conditions of use.

Hazardous Component(s)	LD50s and LC50s
Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica	None
3-[tris(acetoxy)silyl]propyl methacrylate	None
Diacetoxydi-tert-butoxysilane	None
2,2-Diethoxyacetophenone	None
Acetic acid	Oral LD50 (Rabbit) = 1,200 mg/kg Oral LD50 (Mouse) = 4,960 mg/kg Oral LD50 (Rat) = 3.53 g/kg Oral LD50 (Rat) = 3.31 g/kg Dermal LD50 (Rabbit) = 1,060 mg/kg Inhalation LC50 (Rat, 4 h) = > 16000 ppm
Acetic anhydride	Oral LD50 (Rat) = 1,780 mg/kg Dermal LD50 (Rabbit) = 4,000 mg/kg

Hazardous Component(s)	Immediate Health Effects	Delayed Health Effects	Chronic Health Effects
Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica			
3-[tris(acetoxy)silyl]propyl methacrylate	Irritant	Allergen	
Diacetoxydi-tert-butoxysilane	Irritant	Allergen	
2,2-Diethoxyacetophenone	Irritant		
Acetic acid	Corrosive Irritant	Allergen	Eyes Gastrointestinal Immune system Kidney
Acetic anhydride	Corrosive Irritant	Allergen	Respiratory

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica	No	No	No
3-[tris(acetoxy)silyl]propyl methacrylate	No	No	No
Diacetoxydi-tert-butoxysilane	No	No	No
2,2-Diethoxyacetophenone	No	No	No
Acetic acid	No	No	No
Acetic anhydride	No	No	No

## 12. ECOLOGICAL INFORMATION

**Ecological information:** Not available.

## 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

**Recommended method of disposal:** Follow all local, state, federal and provincial regulations for disposal.

## 14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any packaging.

**U.S. Department of Transportation Ground (49 CFR)**

**Proper shipping name:** Not regulated  
**Hazard class or division:** None  
**Identification number:** None  
**Packing group:** None

**International Air Transportation (ICAO/IATA)**

**Proper shipping name:** Not regulated  
**Hazard class or division:** None  
**Identification number:** None  
**Packing group:** None

**Water Transportation (IMO/IMDG)**

**Proper shipping name:** Not regulated  
**Hazard class or division:** None  
**Identification number:** None  
**Packing group:** None

## 15. REGULATORY INFORMATION

**United States Regulatory Information**

**TSCA 8 (b) Inventory Status:** All components are listed as active or are exempt from listing on the Toxic Substances Control Act (TSCA) inventory.  
**TSCA 12 (b) Export Notification:** None above reporting de minimis  
**CERCLA/SARA Section 302 EHS:** None above reporting de minimis.  
**CERCLA/SARA Section 311/312:** Please refer to the GHS classification in Section 2  
**CERCLA/SARA Section 313:** None above reporting de minimis.  
**California Proposition 65:** This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

**Canada Regulatory Information**

**CEPA DSL/NDSL Status:** All components are listed on or are exempt from listing on the Canadian Domestic Substances List.

## 16. OTHER INFORMATION

**This safety data sheet contains changes from the previous version in sections:** 3, 4, 8, 9, 11, 15

**Prepared by:** Product Safety and Regulatory Affairs

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